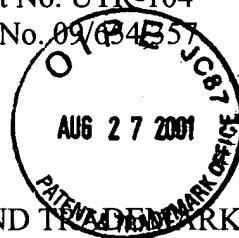


I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on August 23, 2001.

Frank C Eisenschenk
Frank C. Eisenschenk, Ph.D., Patent Attorney

DECLARATION UNDER 37 C.F.R. § 1.131
Examining Group 1617
Patent Application
Docket No. UTR-104
Serial No. 09/654,357



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Helen Nguyen
Art Unit : 1615
Applicants : Michael B. Zemel, Hang Shi, Paula C. Zemel
Serial No. : 09/654,357
Filed : September 1, 2000
For : Materials and Methods for the Treatment or Prevention of Obesity

Commissioner of Patents and Trademarks
Washington, D.C. 20231

DECLARATION UNDER 37 C.F.R. § 1.131

Sir:

DR. MICHAEL B. ZEMEL, DR. HANG SHI, AND DR. PAULA C. ZEMEL DECLARE:

1. THAT we are co-inventors of the invention disclosed and claimed in U.S. Application Serial No. 09/654,357.

2. THAT said invention was completed in the United States prior to January 2000, as shown by the following exhibits. We conceived and reduced to practice methods for the stimulation of lipolysis in animals by increasing the amounts of dietary calcium consumed by these animals. Dietary calcium is provided in the form of calcium carbonate or powdered non-fat milk. Exhibit 1 shows that increasing dietary calcium stimulates lipolysis. The effects of a high calcium diet on adipocyte lipolysis was assayed using a glycerol release assay as described in Example 2 of the above-identified patent application.

3. THAT Exhibit 1 is a copy of pages taken from a laboratory record created and maintained in the normal course of laboratory operations, prior to January 2000. The completion date of the experiments and analyses recorded in these laboratory notebook pages have been redacted. We hereby attest that these redacted dates are prior to the critical date.

We hereby further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Further, Declarants sayeth not.

By: _____ Date: _____
Michael B. Zemel, Ph.D.

By: _____ Date: _____
Hang Shi, Ph.D.

By: _____ Date: _____
Paula C. Zemel, Ph.D.



PHOTOMETRY/GLYCOL-HI

ID	I	mol/l
STD 1	1	0.19 0.000
STD 1	1	0.19 0.000
MEAN		0.19 SD= 0.000 RSD= 0.483
STD 2	2	0.15 1.000
STD 2	2	0.14 1.000
MEAN		0.14 SD= 0.009 RSD= 0.072
STD 3	3	0.060 2.500
STD 3	3	0.067 2.500
MEAN		0.068 SD= 0.009 RSD= 0.844
STD 4	4	0.319 5.000
STD 4	4	0.315 5.000
MEAN		0.317 SD= 0.002 RSD= 0.024

PHOTOMETRY/GLYCEROL

ID	I	mol/l
STD 1	1	2.006 0.000
STD 1	1	1.995 0.000
MEAN		2.000 SD= 0.007 RSD= 0.350
STD 2	2	2.080 0.050
STD 2	2	2.061 0.050
MEAN		2.094 SD= 0.009 RSD= 0.300
STD 3	3	8.394 0.100
STD 3	3	8.417 0.100
MEAN		8.405 SD= 0.016 RSD= 0.190
STD 4	4	10.77 0.250
STD 4	4	10.76 0.250
MEAN		10.76 SD= 0.014 RSD= 0.130
STD 5	5	15.36 0.500
STD 5	5	15.36 0.500
MEAN		15.36 SD= 0.030 RSD= 0.020
STD 6	6	15.44 1.000
STD 6	6	15.45 1.000
MEAN		15.44 SD= 0.009 RSD= 0.058
1	1	4.773 0.074
1	1	4.762 0.074
1a	MEAN	4.764 SD= 0.000 RSD= 0.000
2	2	1.396 0.036
2	2	1.370 0.035
1b	MEAN	1.385 SD= 0.000 RSD= 0.000
3	3	6.028 0.143
3	3	6.022 0.143
2a	MEAN	6.025 SD= 0.000 RSD= 0.000
4	4	3.148-0.016L
4	4	3.173-0.014L
2b	MEAN	3.160 SD= 0.001 RSD=-6.667
5	5	3.473 0.002
5	5	3.479 0.003
2c	MEAN	3.476 SD= 0.000 RSD= 0.000
6	6	5.089 0.092
6	6	5.085 0.091
4a	MEAN	5.087 SD= 0.000 RSD= 0.000
7	7	4.540 0.061
7	7	4.530 0.061

4a	5.085	0.091		
	MEAN =	0.091	SD =	0.000 RSD = 0.000
	7	4.540	0.061	
	7	4.530	0.068	
4b	0.061	0.000	SD =	RSD = 0.000
	8	5.955	0.139	
	8	5.933	0.138	
5a	0.138	0.000	SD =	RSD = 0.000
	9	5.967	0.140	
	9	5.941	0.139	
5b	0.139	0.000	SD =	RSD = 0.000
	10	3.946	0.028	
	10	3.929	0.028	
6a	0.028	0.000	SD =	RSD = 0.000
	11	2.255	-0.065L	
	11	2.259	-0.065L	
6b	-0.065	0.000	SD =	RSD = 0.000
	12	5.853	0.134	
	12	5.844	0.133	
7a	0.133	0.000	SD =	RSD = 0.000
	13	6.030	0.143	
	13	6.004	0.142	
7b	0.142	0.000	SD =	RSD = 0.000
	14	4.075	0.036	
	14	4.045	0.034	
8a	0.035	0.001	SD =	RSD = 2.857
	15	4.996	0.086	
	15	4.993	0.086	
8b	0.086	0.000	SD =	RSD = 0.000
	16	3.785	0.020	
	16	3.782	0.019	
9a	0.019	0.000	SD =	RSD = 0.000
	17	5.017	0.023	
	17	5.020	0.023	
9b	0.088	0.000	SD =	RSD = 0.000
	18	5.373	0.107	
	18	5.365	0.107	
10a	0.107	0.000	SD =	RSD = 0.000
21	2.711	-0.040L		
	19	2.705	-0.040L	
10b	-0.040	0.000	SD =	RSD = 0.000
	20	4.237	0.045	
	20	4.234	0.044	
11a	0.044	0.000	SD =	RSD = 0.000
	21	5.423	0.110	
	21	6.055	0.145	
11b	0.127	0.024	SD =	RSD = 18.89
	22	6.032	0.144	
	22	6.035	0.144	
12a	0.144	0.000	SD =	RSD = 0.000
	23	6.307	0.159	
	23	6.277	0.157	
12b	0.158	0.001	SD =	RSD = 0.632
	24	8.206	0.264	
	24	8.546	0.282	
13a	0.273	0.012	SD =	RSD = 4.395
	25	4.842	0.078	
	25	4.641	0.078	
13b	0.078	0.000	SD =	RSD = 0.000
	26	4.835	0.078	
	26	1.816	0.076	
14a	0.077	0.001	SD =	RSD = 1.298
	27	5.661	0.123	
	27	5.822	0.132	
14b	0.127	0.006	SD =	RSD = 4.724
	28	2.061	-0.076L	
15a	0.077	0.000	SD =	RSD = 0.000
	29	4.391	0.053	
	29	4.357	0.051	
15b	0.052	0.001	SD =	RSD = 1.5823
	30	5.045	0.089	
	30	5.008	0.087	

15a MEAN= 0.052 SD= 0.001 RSD= 1.923

30 5.045 0.089

30 5.008 0.037

15b MEAN= 0.088 SD= 0.001 RSD= 1.136

31 2.682-0.041L

31 2.659-0.043L

16a MEAN= -0.042 SD= 0.001 RSD=-2.381

32 5.409 0.109

32 5.397 0.109

16b MEAN= 0.109 SD= 0.000 RSD= 0.000

33 3.110-0.018L

33 3.110-0.018L

1a MEAN= -0.018 SD= 0.000 RSD= 0.000

34 3.300-0.002L

34 3.410-0.001L

1b MEAN= -0.002 SD= 0.000 RSD= 0.000

35 3.404-0.001L

35 3.113-0.017L

2a MEAN= -0.009 SD= 0.011 RSD=-122.2

36 2.359-0.059L

36 2.348-0.060L

2b MEAN= -0.060 SD= 0.000 RSD= 0.000

37 3.371-0.003L

37 3.382-0.003L

3b MEAN= -0.003 SD= 0.000 RSD= 0.000

38 3.064-0.020L

38 3.067-0.020L

4a MEAN= -0.020 SD= 0.000 RSD= 0.000

39 2.652-0.043L

39 2.640-0.044L

4b MEAN= -0.044 SD= 0.000 RSD= 0.000

40 2.802-0.005L

40 2.746-0.038L

5a MEAN= -0.037 SD= 0.002 RSD=-5.406

41 5.112 0.093

41 4.785 0.075

5b MEAN= 0.084 SD= 0.012 RSD= 14.28

42 5.600 0.120

42 5.577 0.118

6a MEAN= 0.119 SD= 0.001 RSD= 0.840

43 3.639 0.012

43 3.652 0.012

6b MEAN= 0.012 SD= 0.000 RSD= 0.000

44 5.071 0.091

44 5.060 0.090

7a MEAN= 0.090 SD= 0.000 RSD= 0.000

45 3.980 0.030

45 3.985 0.031

7b MEAN= 0.030 SD= 0.000 RSD= 0.000

46 4.219 0.044

46 4.212 0.043

8a MEAN= 0.043 SD= 0.000 RSD= 0.000

47 4.821 0.077

47 4.700 0.075

8b MEAN= 0.076 SD= 0.001 RSD= 1.315

48 4.956 0.084

48 4.955 0.084

9a MEAN= 0.084 SD= 0.000 RSD= 0.000

49 4.111 0.038

49 4.082 0.036

9b MEAN= 0.037 SD= 0.001 RSD= 2.702

50 4.999 0.087

50 5.004 0.087

10a MEAN= 0.087 SD= 0.000 RSD= 0.000

51 4.033 0.033

51 4.046 0.034

10b MEAN= 0.033 SD= 0.000 RSD= 0.000

52 4.807 0.076

52 4.792 0.075

11a MEAN= 0.075 SD= 0.000 RSD= 0.000

53 5.049 0.089

53 5.044 0.089

49 4.111 0.038
95 MEAN= 0.037 SD= 0.001 RSD= 2.702
50 4.999 0.087
50 5.004 0.087
10a MEAN= 0.087 SD= 0.000 RSD= 0.000
51 4.033 0.033
51 4.046 0.034
10b MEAN= 0.033 SD= 0.000 RSD= 0.000
52 4.807 0.076
52 4.792 0.075
11a MEAN= 0.075 SD= 0.000 RSD= 0.000
53 5.019 0.089
53 5.044 0.089
11b MEAN= 0.089 SD= 0.000 RSD= 0.000
54 5.669 0.124
54 5.674 0.124
12a MEAN= 0.124 SD= 0.000 RSD= 0.000
55 5.830 0.132
55 5.793 0.130
12b MEAN= 0.131 SD= 0.001 RSD= 0.763
56 5.551 0.117
56 5.523 0.115
13a MEAN= 0.116 SD= 0.001 RSD= 0.862
57 3.558 0.007
57 3.551 0.007
13b MEAN= 0.007 SD= 0.000 RSD= 0.000
58 6.217 0.154
53 6.194 0.153
14a MEAN= 0.153 SD= 0.000 RSD= 0.000
59 1.984-0.080L
59 1.982-0.080L
14b MEAN= -0.080 SD= 0.000 RSD= 0.000
60 5.393 0.108
60 5.395 0.108
15a MEAN= 0.108 SD= 0.000 RSD= 0.000
61 5.425 0.110
61 5.424 0.110
15b MEAN= 0.110 SD= 0.000 RSD= 0.000
62 2.896-0.029L
62 2.897-0.029L
16a MEAN= -0.029 SD= 0.000 RSD= 0.000
63 5.112 0.093
63 5.154 0.095
16b MEAN= 0.094 SD= 0.001 RSD= 1.063
64 5.840 0.133
64 5.849 0.133
MEAN= 0.133 SD= 0.000 RSD= 0.000
65 5.858 0.134
65 5.859 0.134
2 MEAN= 0.134 SD= 0.000 RSD= 0.000
66 5.021 0.088
66 5.011 0.087
3 MEAN= 0.087 SD= 0.000 RSD= 0.000
67 5.401 0.109
67 5.413 0.109
4 MEAN= 0.109 SD= 0.000 RSD= 0.000
68 5.938 0.138
68 5.860 0.134
5 MEAN= 0.136 SD= 0.002 RSD= 1.470
69 5.449 0.111
69 5.256 0.101
6 MEAN= 0.106 SD= 0.007 RSD= 6.603
70 2.213-0.067L
70 2.209-0.067L
MEAN= -0.067 SD= 0.000 RSD= 0.000
71 5.759 0.129
71 5.740 0.127
8 MEAN= 0.128 SD= 0.001 RSD= 0.781

8	0.221	0.1988	1.11167
			0.947136

ACTH(100nM)

con

1a	0.038	0.3977	0.095549
1b	0.057	0.3636	0.156766
2a	0.058	0.4902	0.118319
2b		0.4441	
3b	0.056	0.3771	0.148502
4a	0.035	0.5005	0.06993
4b	0.006	0.5643	0.010633

avg			0.117813
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high-Ca

5a	0.017	0.4475	0.037989
5b	0.177	0.3302	0.536039
6a	0.21	0.4576	0.458916
6b	0.075	0.4078	0.183914
7a	0.174	0.3832	0.454071
7b	0.098	0.5349	0.183212
8a	0.115	0.4088	0.281311
8b	0.154	0.2215	0.69526

avg			0.39896
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medium-dairy

9a	0.166	0.5304	0.312971
9b	0.107	0.4747	0.225406
10a	0.169	0.53	0.318868
10b	0.103	0.5327	0.193355
11a	0.155	0.3235	0.479134
11b	0.172	0.3931	0.437548
12a	0.216	0.2288	0.944056
12b	0.226	0.2761	0.818544

avg			0.466235
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high-dairy

13a	0.207	0.3945	0.524715
13b	0.069	0.3999	0.172543
14a	0.253	0.307	0.824104
14b	0.237	0.2847	0.832455
15a	0.196	0.2033	0.964092
15b	0.198	0.3495	0.566524
16a	0.023	0.4219	0.054515
16b	0.18	0.4152	0.433526

avg			0.616851
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